

Figure 1A
(Prior Art)

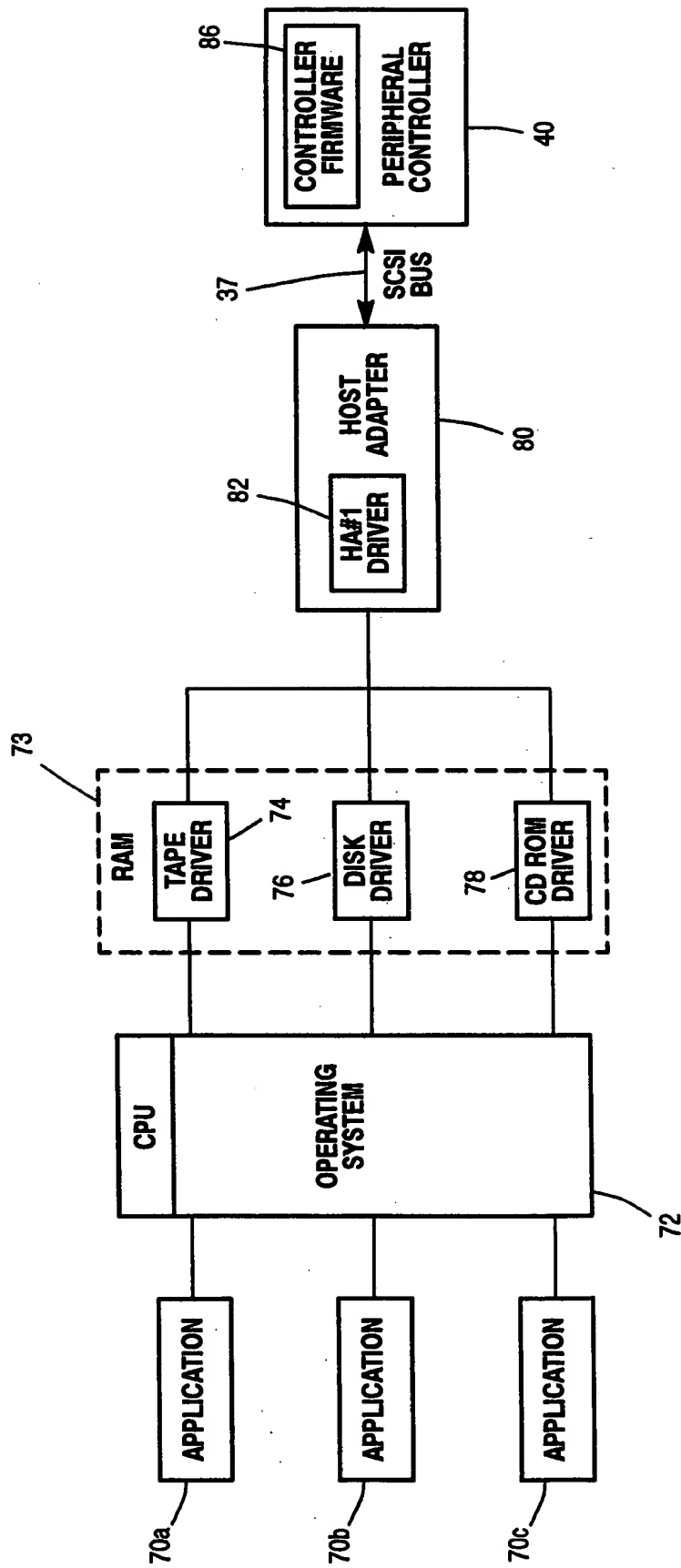


Figure 1B
(Prior Art)

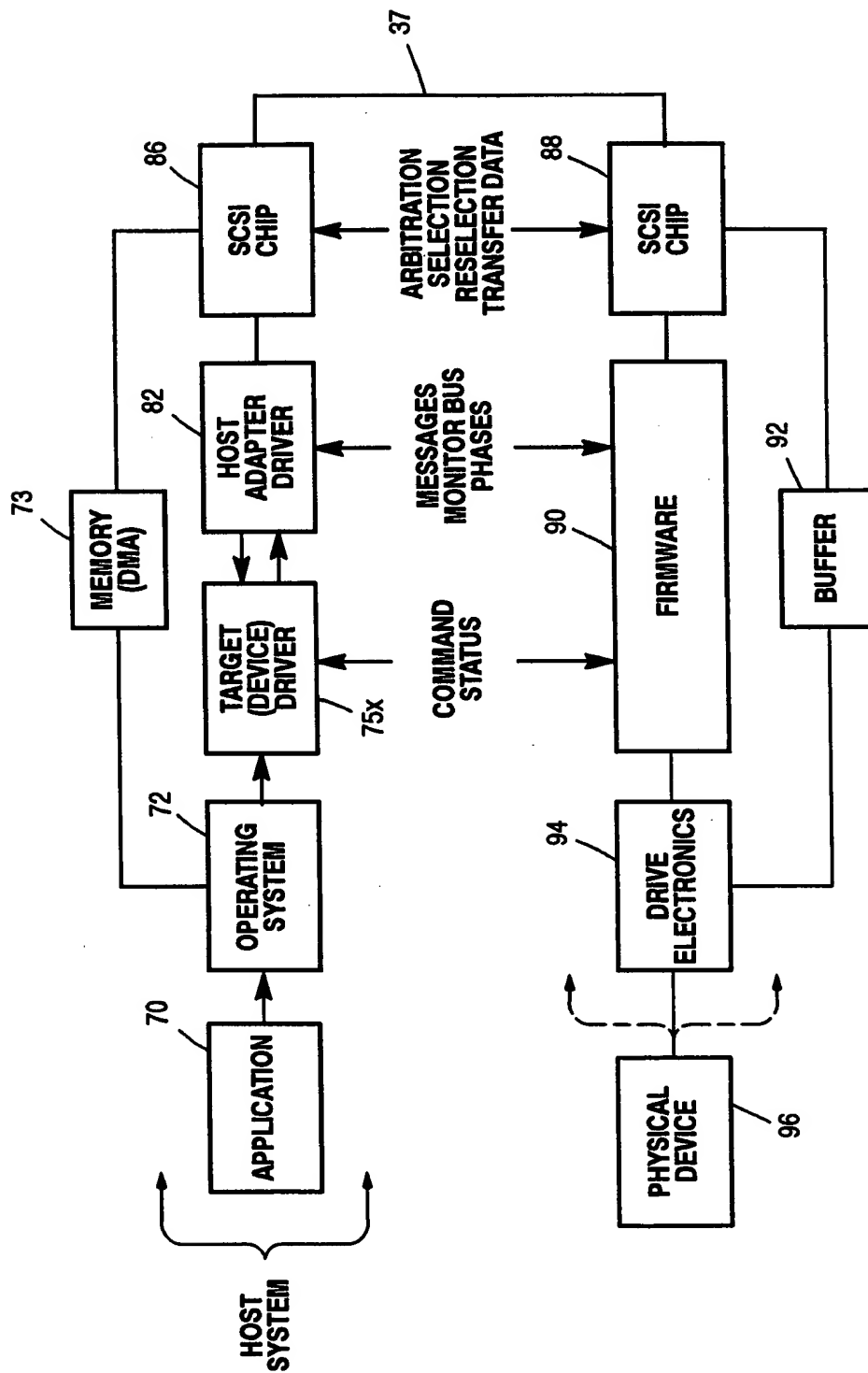


Figure 1C
(Prior Art)

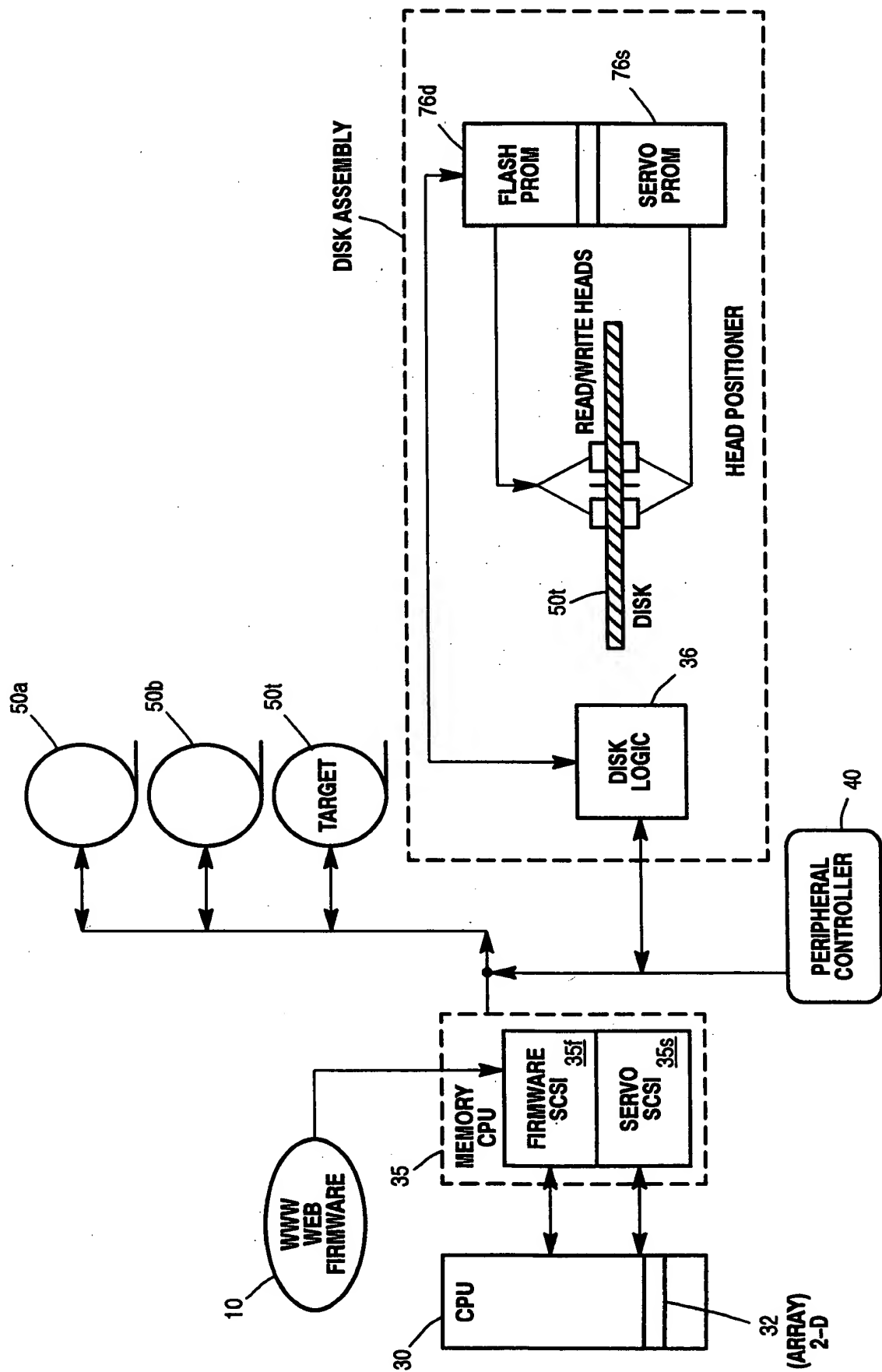


Figure 1D
(Prior Art)

TYPICAL TWELVE-BYTE CDB

(TABLE 23)

| | BIT 7 | BIT 6 | BIT 5 | BIT 4 | BIT 3 | BIT 2 | BIT 1 | BIT 0 |
|--------|---|-------|-------|-------|----------|-------|-------|-------|
| BYTE 0 | OPERATION CODE | | | | | | | |
| BYTE 1 | LOGICAL UNIT NUMBER | | | | RESERVED | | | |
| BYTE 2 | LBA = LOGICAL BLOCK ADDRESS (IF REQUIRED) | | | | | | | |

Figure 2
(Prior Art)

WRITE BUFFER COMMAND

| BIT BYTE | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|-------------|----------------------|-----------------------|---|---|---|------|---|-------|
| 0 | OPERATION CODE (3Bh) | | | | | | | |
| 1 | RESERVED | | | | | MODE | | |
| 2 | BUFFER ID | | | | | | | |
| 3 | (MSB) | BUFFER OFFSET | | | | | | (LSB) |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | (MSB) | PARAMETER LIST LENGTH | | | | | | (LSB) |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | CONTROL | | | | | | | |

Figure 3
(Prior Art)

WRITE BUFFER MODE FIELD

| MODE | DESCRIPTION | IMPLEMENTATION REQUIREMENTS |
|------|--|-----------------------------|
| 000b | WRITE COMBINED HEADER AND DATA | OPTIONAL |
| 001b | VENDOR-SPECIFIC | VENDOR-SPECIFIC |
| 010b | WRITE DATA | OPTIONAL |
| 011b | RESERVED | RESERVED |
| 100b | DOWNLOAD MICROCODE | OPTIONAL |
| 101b | DOWNLOAD MICROCODE AND SAVE | OPTIONAL |
| 110b | DOWNLOAD MICROCODE WITH OFFSETS | OPTIONAL |
| 111b | DOWNLOAD MICROCODE WITH OFFSETS AND SAVE | OPTIONAL |

Figure 4
(Prior Art)

OPERATION CODE

| BITS | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|--------|------------|---|---|---|--------------|---|---|---|
| BYTE 0 | GROUP CODE | | | | COMMAND CODE | | | |

GROUP CODE FIELD

| GROUP | BIT 7 | BIT 6 | BIT 5 | NUMBER OF COMMAND BYTES |
|-------|-------|-------|-------|----------------------------|
| 0 | 0 | 0 | 0 | SIX |
| 1 | 0 | 0 | 1 | TEN |
| 2 | 0 | 1 | 0 | TEN (NEW IN SCSI-2) |
| 3 | 0 | 1 | 1 | RESERVED |
| 4 | 1 | 0 | 0 | RESERVED |
| 5 | 1 | 0 | 1 | TWELVE |
| 6 | 1 | 1 | 0 | VENDOR SPECIFIC |
| 7 | 1 | 1 | 1 | VENDOR SPECIFIC |

Figure 5
(Prior Art)

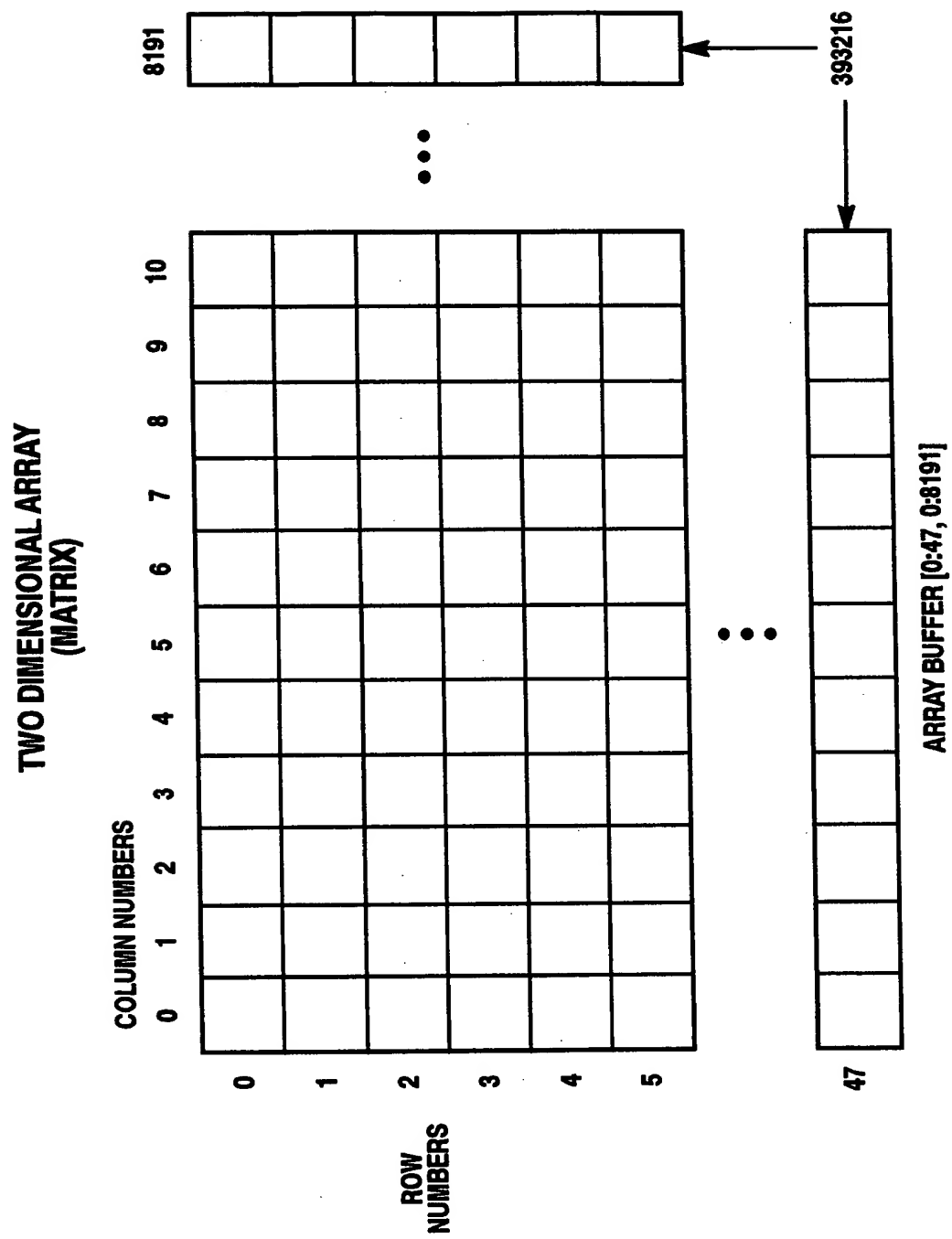


Figure 6

DFAST

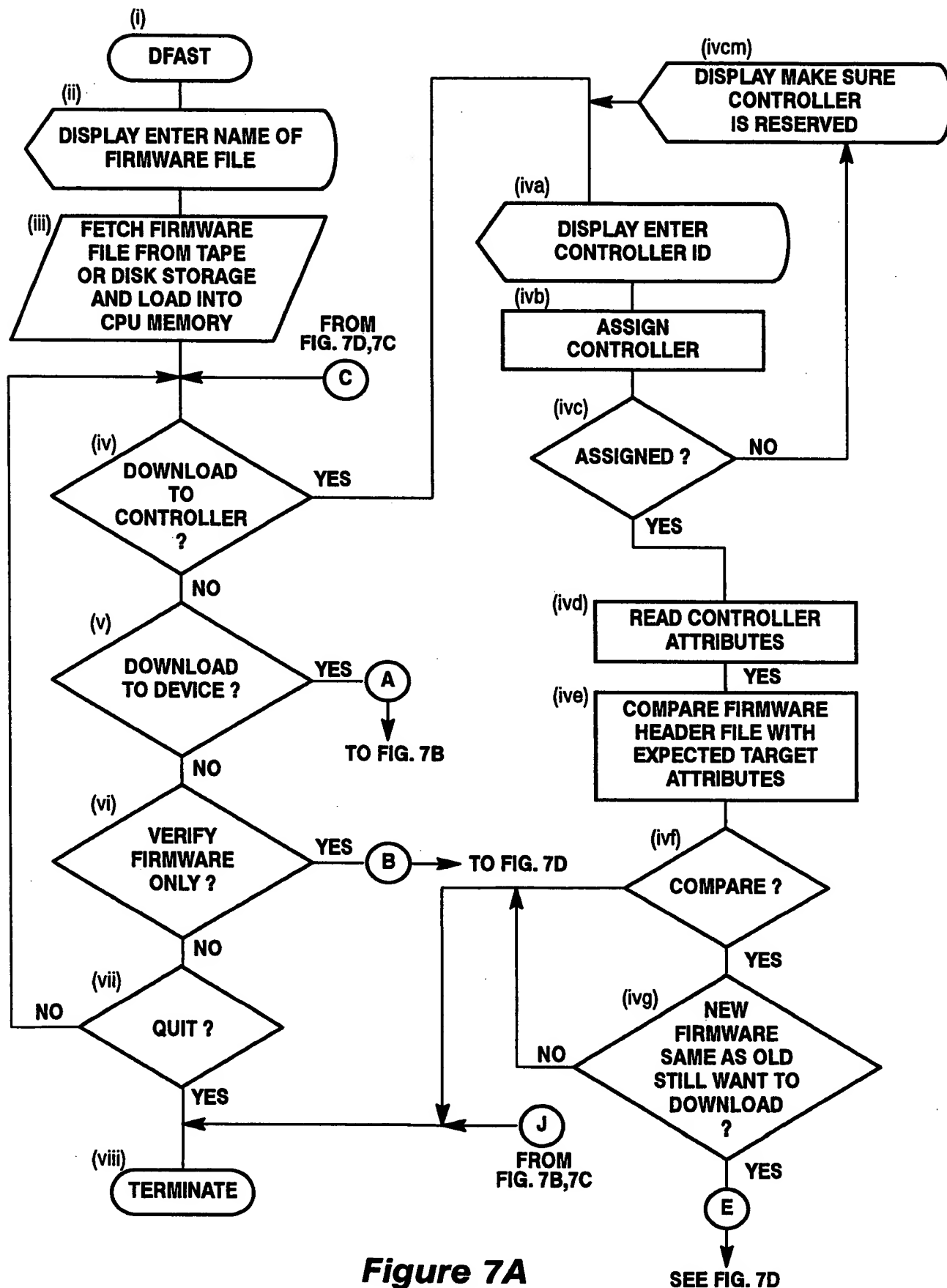


Figure 7A

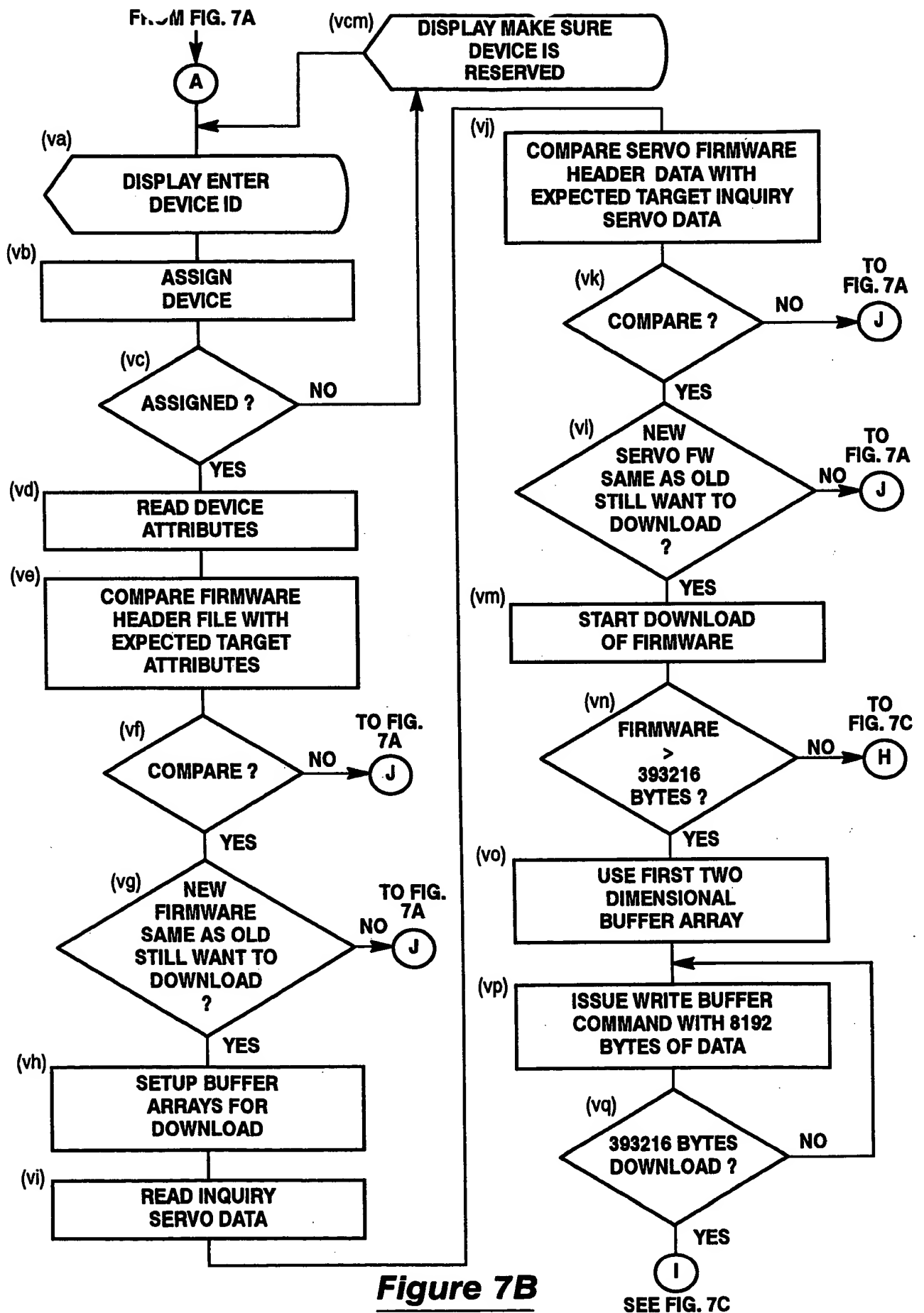


Figure 7B

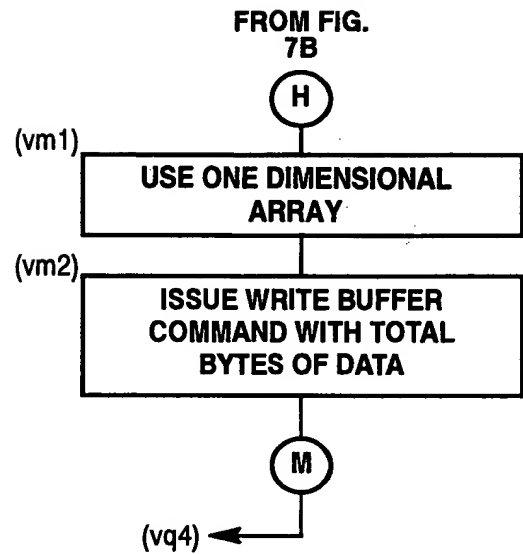
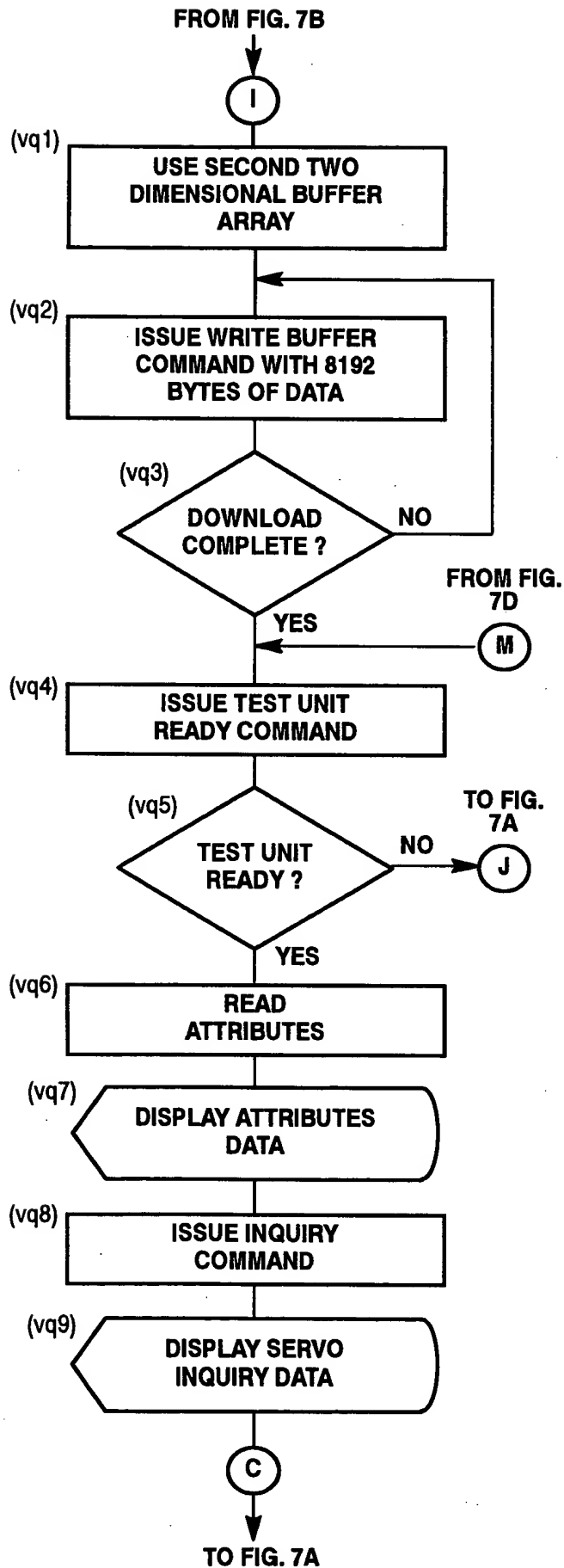


Figure 7C

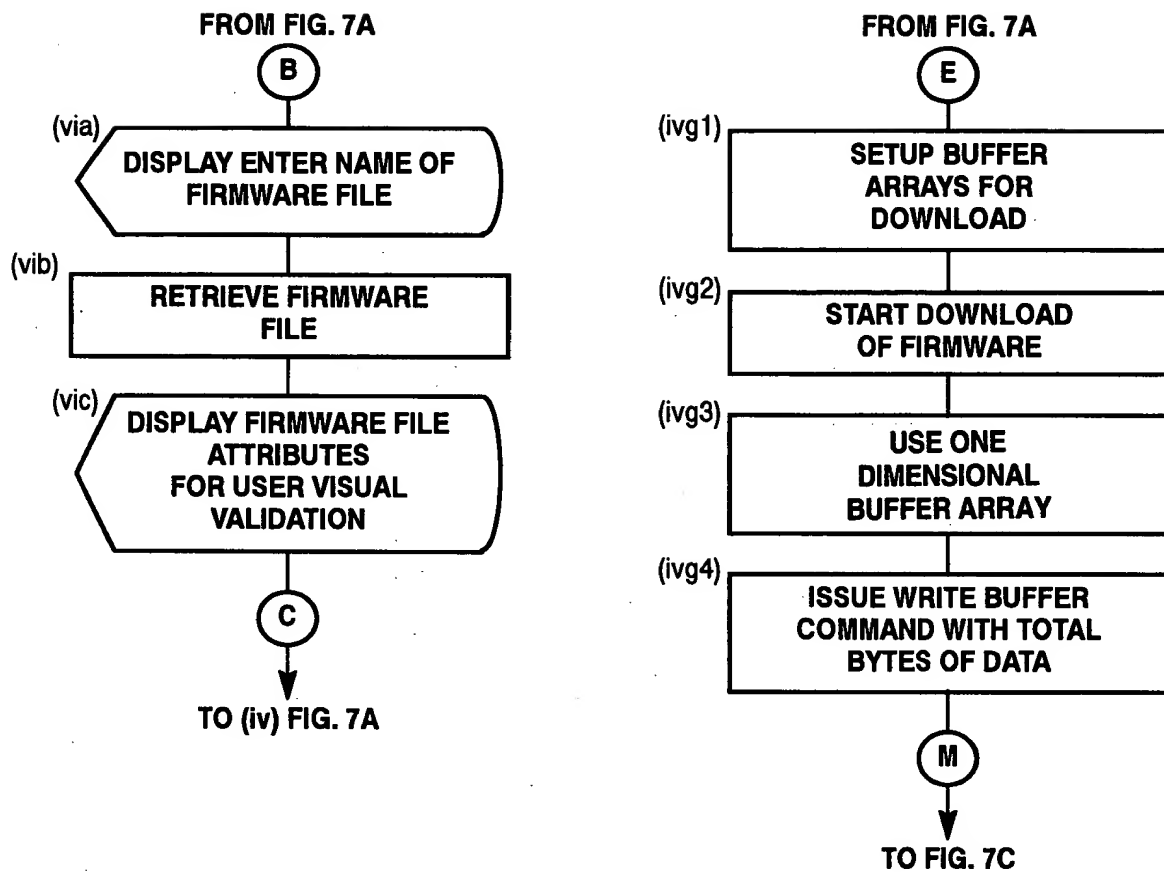


Figure 7D